



FIG. 1

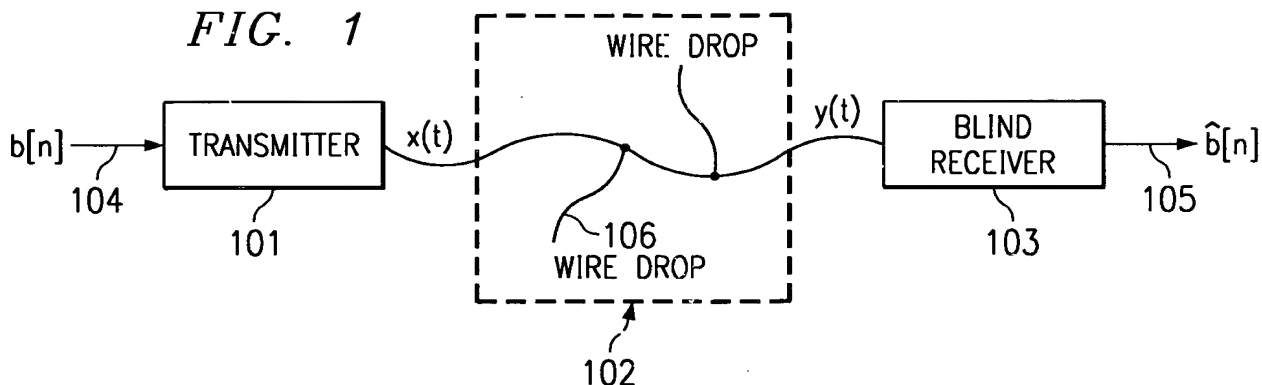


FIG. 2

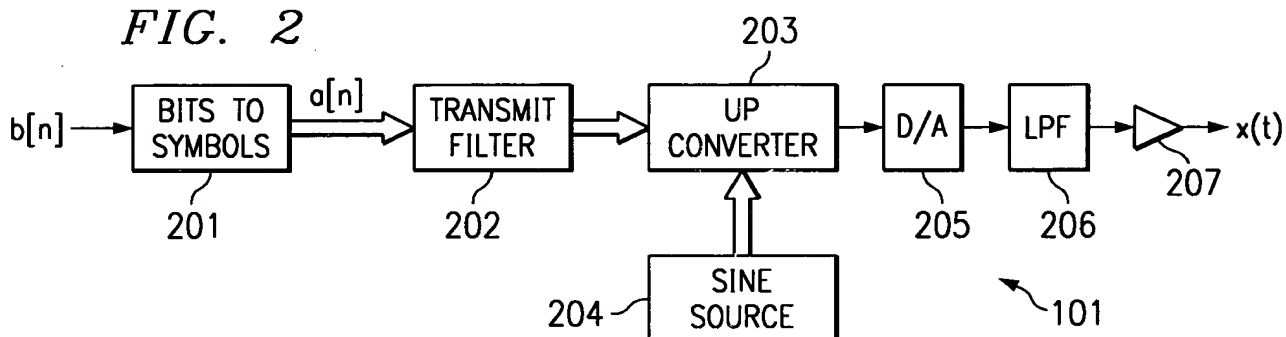
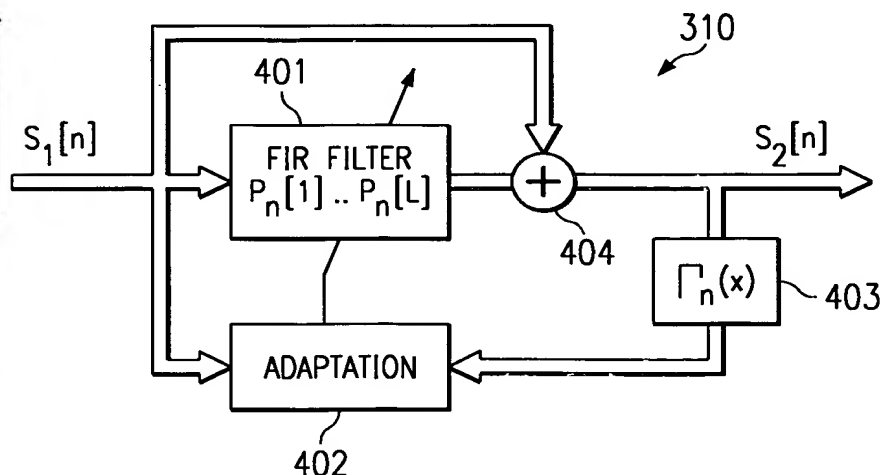


FIG. 4



$$S_2[n] = S_1[n] + \sum_{\ell=1}^L P_n[\ell] S_1[n-\ell] \quad (\ell \geq 0)$$

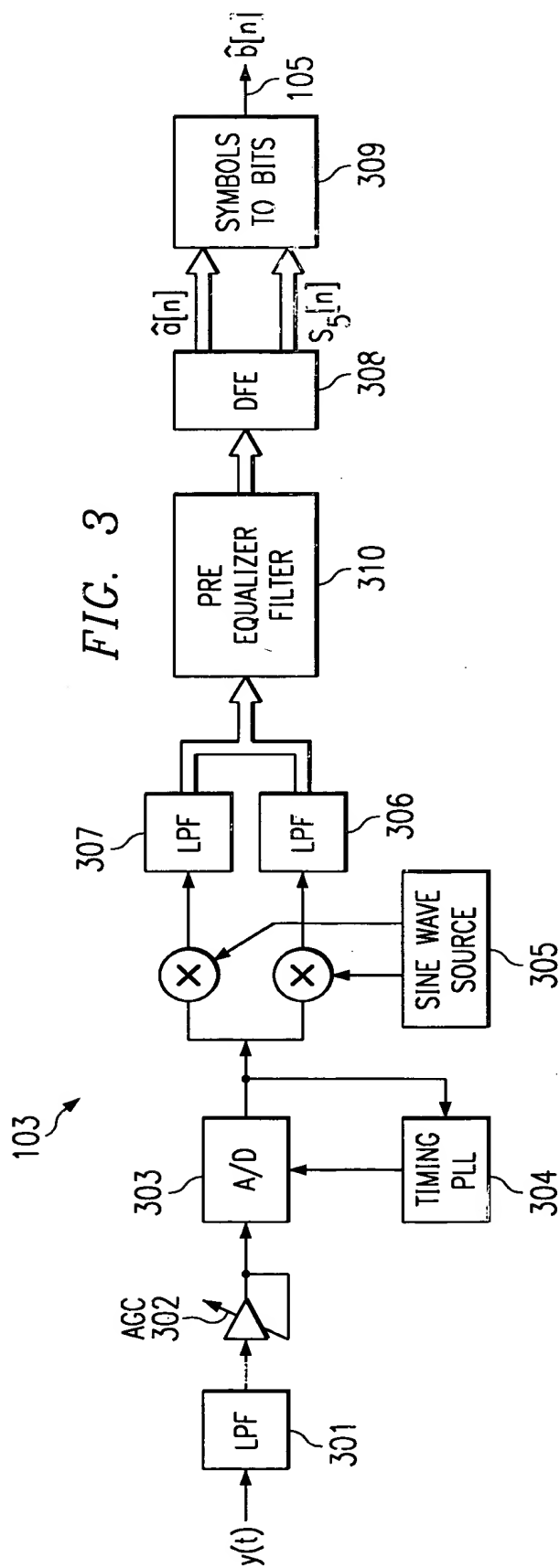
$$P_{n+1}[\ell] = P_n[\ell] + \Gamma_n(S_2[n]) \cdot S_1^*[n-\ell] \quad (\ell=1..L)$$

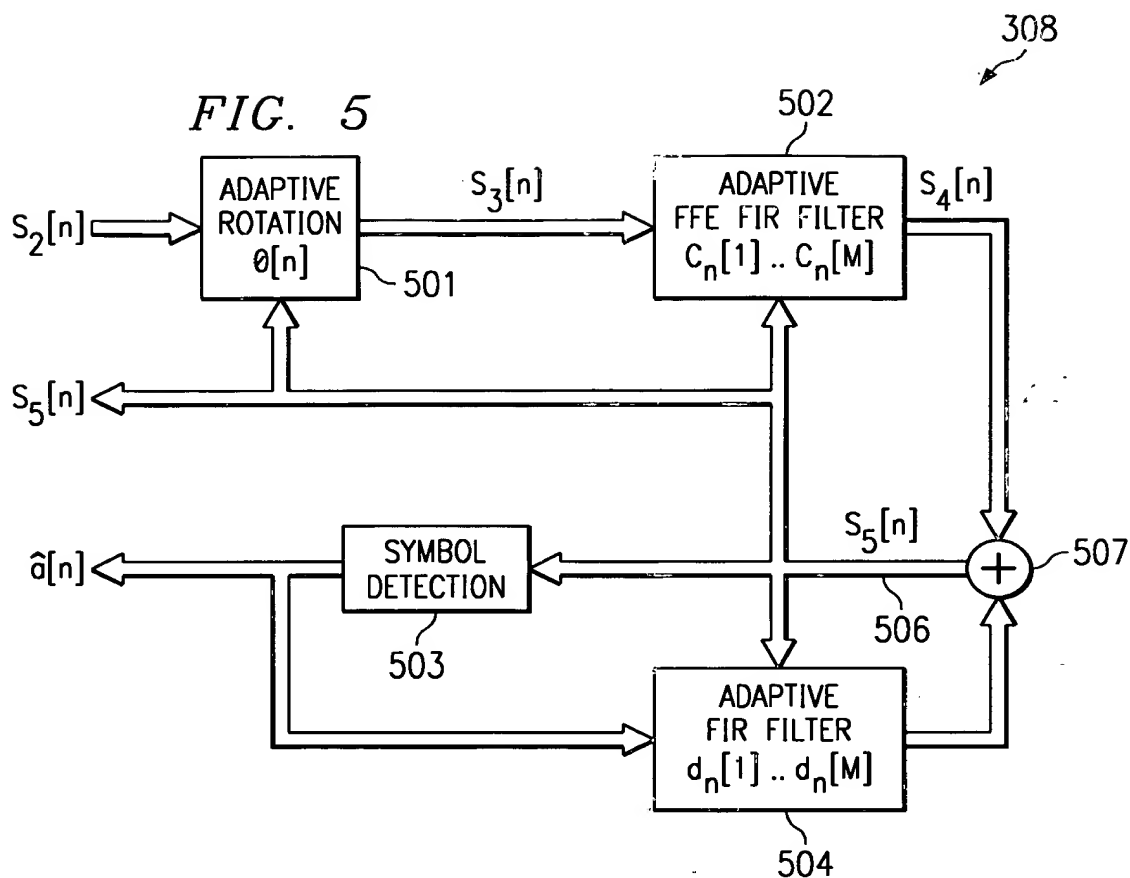
$$\Gamma_n(x) = \delta p[n] \cdot x$$



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$$S_3[n] = S_2[n] \cdot e^{j\theta[n]}, \quad \theta[n+1] = \theta[n] + \rho_n(S_5[n])$$

$$S_4[n] = \sum_{m=1}^M C_n[m] S_3[n-m], \quad C_{n+1}[m] = C_n[m] + \gamma_n(S_5[n]) S_3^*[n-m] \quad (M \geq 1, N \geq 0)$$

$$S_5[n] = S_4[n] + \sum_{i=1}^N d_n[i] \hat{a}[n-i], \quad d_{n+1}[i] = d_n[i] + \gamma_n(S_5[n]) \hat{a}^*[n-i]$$